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Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/TJ/W.No.03/CSR-01/848h/CEMENT/2018-19 Date: 09.01.2019

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. T. Jayanth,** No.152, 2nd Block, 3rd Stage, Basaveshwaranagara, Bangalore.
* Name of Work	:	Construction of RCC drain & providing covering slab of Jyothinagara in Ward No.03, BBMP, Bangalore.
* Reference	:	EE(YNK-D)E-PMT-20/W.O/98/2018-19 Dated: 26.12.2018
* Sample ID	:	Cement
Sample Received on	:	07.01.2019
Period of Testing	:	07.01.2019 to 09.01.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	360 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
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Job No.: CTCE/BBMP/TJ/W.No.03/CSR-01/848h/SAND-Gradation/2018-19 09.01.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. T. Jayanth,** No.152, 2nd Block, 3rd Stage, Basaveshwaranagara, Bangalore.
* Name of Work	:	Construction of RCC drain & providing covering slab of Jyothinagara in Ward No.03, BBMP, Bangalore.
* Reference	:	EE(YNK-D)E-PMT-20/W.O/98/2018-19 Dated: 26.12.2018
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	07.01.2019
Date of Testing	:	09.01.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.50	90-100	90-100	90-100	95-100
2.36	80.50	60-95	75-100	85-100	95-100
1.18	59.50	30-70	55-90	75-100	90-100
600 Micron	39.50	15-34	35-59	60-79	80-100
300 Micron	21.50	5-20	8-30	12-40	15-50
150 Micron	6.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2:

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e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/TJ/W.No.03/CSR-01/848h/AGG/GR/2018-19

09.01.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. T. Jayanth,** No.152, 2nd Block, 3rd Stage, Basaveshwaranagara, Bangalore.
* Name of Work	:	Construction of RCC drain & providing covering slab of Jyothinagara In Ward No.03, BBMP, Bangalore.
* Reference	:	EE(YNK-D)E-PMT-20/W.O/98/2018-19 Dated: 26.12.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	07.01.2019
Date of Testing	:	09.01.2019

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.74	95-100	85-100
20	39.62	30-70	0-20
10	14.98	10-35	0-5
4.75	2.50	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/TJ/W.No.03/Steel/2018-19 11.01.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. T. Jayanth,** No.152, 2nd Block, 3rd Stage, Basaveshwaranagara, Bangalore.
* Name of work	:	Construction of RCC drain & providing covering slab of Jyothinagara in Ward No.03, BBMP, Bangalore.
* Reference	:	EE(YNK-D)E-PMT-20/W.O/98/2018-19 Dated: 26.12.2018
* Samples ID	:	8 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	11.01.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	510	551	13.05	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/TJ/W.No.03/Steel/2018-19 11.01.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. T. Jayanth,** No.152, 2nd Block, 3rd Stage, Basaveshwaranagara, Bangalore.
* Name of work	:	Construction of RCC drain & providing covering slab of Jyothinagara in Ward No.03, BBMP, Bangalore.
* Reference	:	EE(YNK-D)E-PMT-20/W.O/98/2018-19 Dated: 26.12.2018
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	11.01.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	515	556	13.2	O.K	O.K

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Job No.: CTCE/BBMP/TJ/W.No.03/CSR-01/848h/Cube/2018-19

11.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. T. Jayanth,** No.152, 2nd Block, 3rd Stage, Basaveshwaranagara, Bangalore.
* Name of the work	:	Construction of RCC drain & providing covering slab of Jyothinagara in Ward No.03, BBMP, Bangalore.
* Reference	:	EE(YNK-D)E-PMT-20/W.O/98/2018-19 Dated: 26.12.2018
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.01.2019	11.02.2019	8.123	475.6	21.14
2	14.01.2019	11.02.2019	8.260	485.6	21.58
3	14.01.2019	11.02.2019	8.305	505.6	22.47

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* Reference	:	EE(YNK-D)E-PMT-20/W.O/98/2018-19 Dated: 26.12.2018
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.01.2019	11.02.2019	8.099	498.6	22.16
2	14.01.2019	11.02.2019	8.196	526.4	23.40
3	14.01.2019	11.02.2019	8.257	532.6	23.67

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* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.01.2019	13.02.2019	8.175	510.6	22.69
2	16.01.2019	13.02.2019	8.210	525.4	23.35
3	16.01.2019	13.02.2019	8.390	532.8	23.68

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* Reference	:	EE(YNK-D)E-PMT-20/W.O/98/2018-19 Dated: 26.12.2018
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.02.2019

SLNo.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.01.2019	13.02.2019	8.137	483.2	21.48
2	16.01.2019	13.02.2019	8.213	494.6	21.98
3	16.01.2019	13.02.2019	8.330	511.7	22.74

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	:	**Mr. T. Jayanth,** No.152, 2nd Block, 3rd Stage, Basaveshwaranagara, Bangalore.
* Name of the work	:	Construction of RCC drain & providing covering slab of Jyothinagara in Ward No.03, BBMP, Bangalore.
* Reference	:	EE(YNK-D)E-PMT-20/W.O/98/2018-19 Dated: 26.12.2018
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2019	15.02.2019	8.275	474.5	21.09
2	18.01.2019	15.02.2019	8.405	482.6	21.45
3	18.01.2019	15.02.2019	8.364	508.7	22.61

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* Agency	:	**Mr. T. Jayanth,** No.152, 2nd Block, 3rd Stage, Basaveshwaranagara, Bangalore.
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* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2019	15.02.2019	8.278	515.6	22.92
2	18.01.2019	15.02.2019	8.364	520.4	23.13
3	18.01.2019	15.02.2019	8.493	532.7	23.68

*Information is furnished by the Customer/Representative.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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Pooja K.L.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/TJ/W.No.03/CSR-01/848h/Cube/2018-19 15.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. T. Jayanth,** No.152, 2nd Block, 3rd Stage, Basaveshwaranagara, Bangalore.
* Name of the work	:	Construction of RCC drain & providing covering slab of Jyothinagara in Ward No.03, BBMP, Bangalore.
* Reference	:	EE(YNK-D)E-PMT-20/W.O/98/2018-19 Dated: 26.12.2018
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2019	15.02.2019	8.117	495.5	22.02
2	18.01.2019	15.02.2019	8.330	513.8	22.84
3	18.01.2019	15.02.2019	8.290	524.5	23.31

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Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.01.2019	18.02.2019	8.235	490.8	21.81
2	21.01.2019	18.02.2019	8.328	513.3	22.81
3	21.01.2019	18.02.2019	8.413	529.6	23.54

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Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.01.2019	18.02.2019	8.159	474.5	21.09
2	21.01.2019	18.02.2019	8.326	485.6	21.58
3	21.01.2019	18.02.2019	8.225	513.3.	22.81

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* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.01.2019	18.02.2019	8.264	513.2	22.81
2	21.01.2019	18.02.2019	8.395	522.6	23.23
3	21.01.2019	18.02.2019	8.456	532.9	23.68

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